

## Certificate of Analysis

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**Product Name:** Felodipine

**Catalog No.:** 2960

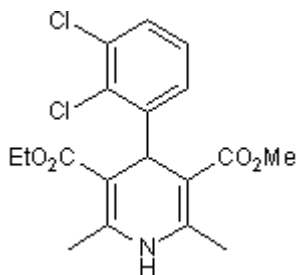
**Batch No.:** 1

CAS Number: 72509-76-3

IUPAC Name: 4-(2,3-Dichlorophenyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic acid ethyl methyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>19</sub>Cl<sub>2</sub>NO<sub>4</sub>  
**Batch Molecular Weight:** 384.25  
**Physical Appearance:** Light yellow solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows >98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.26	4.98	3.65
Found	56.31	5.01	3.63

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**Description:**

L-type Ca<sup>2+</sup> channel blocker that is selective over N-, R-, P/Q- and T-type channels. Displays high vascular selectivity; lowers arterial blood pressure without altering cardiac contractility. Antihypertensive.

**Physical and Chemical Properties:**

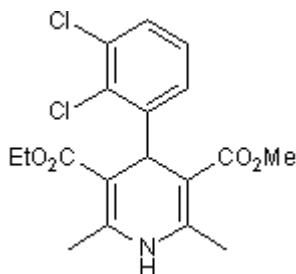
Batch Molecular Formula: C<sub>18</sub>H<sub>19</sub>Cl<sub>2</sub>NO<sub>4</sub>

Batch Molecular Weight: 384.25

Physical Appearance: Light yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Ljung** (1990) Vascular selectivity of felodipine: experimental pharmacology. *J.Cardiovasc.Pharmacol.* **15** S11. PMID: 1693715.

**Furukawa et al** (1999) Selectivities of dihydropyridine derivatives in blocking Ca<sup>2+</sup> channel subtypes expressed in *Xenopus* oocytes. *J.Pharmacol.Exp.Ther.* **291** 464. PMID: 10525060.

**Furukawa et al** (2005) Differential blocking action of dihydropyridine Ca<sup>2+</sup> antagonists on a T-type Ca<sup>2+</sup> channel (α<sub>1G</sub>) expressed in *Xenopus* oocytes. *J.Cardiovasc.Pharmacol.* **45** 241. PMID: 15725949.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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